

LAURA KIER 15 W. 81 St., NY, NY 10024 • 917.575.6986 • laura.s.kier.12@dartmouth.edu

Education	Thayer School of Engineering at Dartmouth • Hanover, NH Bachelor of Engineering, Energy Conversion and Optimization Relevant coursework: Energy Utilization; Energy Conversion; Chemical Engineering; Principles of System Dynamics; Statistical Methods in Engineering; Sustainable Design <i>Expected June 2013</i>
	Dartmouth College • Hanover, NH Bachelor of Arts, Engineering Sciences modified with Environmental Policy. 3.54/4.0 GPA • Junior Class Recipient "Class of 1866 Prize for Oratory" Relevant coursework: Structural Analysis; Environmental Engineering; Thermodynamics; Scientific Computing; Speechwriting; Economics of Public Policy; Architecture; Ethics and Public Policy <i>June 2012</i>
Work Experience	Navigant Consulting Energy Practice, Summer Associate • Washington, D.C. • Worked in Energy Efficiency and Policy Analysis group on Department of Energy contract to create national efficiency standards for household appliances • Developed testing database and automated reports for DOE Assessment and EnergySTAR, and researched cost-cutting measures to reduce DOE's economic burden of the program <i>Summer 2012</i>
	Office of Sustainability, Bike Project Intern • Hanover, NH • Designed and developed solutions to eliminate accumulation of waste bikes around campus and encourage community bike culture • Collaborated with administrators on new bike policy, organized pop-up bike workshops, and generated bike program model for 2012-2013 <i>Fall 2011- Spring 2012</i>
	Sherwood Design Engineers, Engineering and Research Intern • New York, NY • Advised architecture firm on sustainable infrastructure facilities for city model at Museum of Modern Art exhibit February 2012 • Researched water harvesting and treatment practices to provide engineering consulting to Silicon Valley company, and collaborated with engineers on other sustainable development projects <i>Summer 2011</i>
	Architecture for Humanity, DPCS Intern • San Francisco, CA • Received \$4,000 grant from Dartmouth Partners in Community Service to intern at nonprofit firm • Led team of volunteers to build greenhouse for urban farming project, and contributed to other local projects including interactive kiosks for the downtown neighborhood and outdoor classroom <i>Winter 2011</i>
	"Icehouse" Project: Engineering Design and Methodology, Team Member • Hanover, NH • Designed passive refrigerator for Vermont resort and athletic training facility, the Craftsbury Outdoor Center, serving 300 meals daily to guests and residents • Evaluated various sustainable cooling techniques and determined that the melting of less than 600 ft ³ of ice could sustain a 40°F design temperature and offset a 4.5 MMBtu summer heat load • Conceptualized design elements such as aluminum metal and automated fan heat exchanger, and 5 gallon dry wall buckets as ice containers <i>Fall 2012- Winter 2013</i>
Academic Project Work	Nuclear CHP Project: Energy Conversion, Team Member • Hanover, NH • Explored potential of nuclear power to deliver both electricity and steam heating in order to increase thermal efficiency and economic attractiveness of nuclear power plants • Conducted case study and Aspen model to economically, energetically and legally compare retrofitting large nuclear power station and smaller, fast neutron fourth generation reactor "Gen4" with CHP <i>Fall 2012</i>
	James O. Freedman Presidential Scholar Program, Research Assistant • Hanover, NH • Studied the collaboration of engineers, architects and builders to formulate structures with Engineering and Studio Art professors and wrote paper discussing work of engineer Pier Luigi Nervi <i>Summer and Fall 2010</i>
	Committee on Standards at Dartmouth College, Student Representative • Hanover, NH • Elected to joint student and faculty committee to evaluate and make recommendations on undergraduate violations of student policy <i>Fall 2009- Spring 2012</i>
Leadership Experience	Dartmouth Outing Club Freshmen Orientation Trips, Staff Member and Trip Leader • Hanover, NH • Managed Dartmouth's Moosilauke Ravine Lodge: cooking meals, coordinating transportation and gear logistics, and facilitating transition to college for new students • Led climbing and biking trips for incoming freshmen along the Appalachian Trail <i>Summer 2010</i>
	Summer Enrichment at Dartmouth (SEAD), Mentor • Hanover, NH • Offered advice and moral support to student from under-resourced school <i>Summer 2010</i>
	Skills Microsoft Office and Access, Matlab, SolidWorks, MiniTab, Stella, Basic Aspen, Vectorworks, Basic Rhinoceros, Basic Lathe/Drill Press Skills, Proficient in Spanish
Interests	Dartmouth Women's Club Soccer, Ceramics, Hiking, Biking, Reading, Yoga